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Gly His Asp Gly Lys Gly His Pro Leu His Arg Arg Glu Lys Arg Gln
    1 5 10 15
gca aaa cac aaa cag cgg aaa cgc ctc aag tcc agc tgt aag aga cac
Ala Lys His Lys Gln Arg Lys Arg Leu Lys Ser Ser Cys Lys Arg His
    20 25 30
cct tta tat gtg gac ttc agt gat gtg ggg tgg aat gac tgg atc gtt
Pro Leu Tyr Val Asp Phe Ser Asp Val Gly Trp Asn Asp Trp Ile Val
        35 40 45
gca cog cog ggg tat cat gcc ttt tac tgc cat ggg gag tgc cot ttt
Ala Pro Pro Gly Tyr His Ala Phe Tyr Cys His Gly Glu Cys Pro Phe
        50 55 60
ccc ctg gcc gat cac ctt aac tcc acg aat cat gcc att ctc caa act
Pro Leu Ala Asp His Leu Asn Ser Thr Asn His Ala Ile Leu Gln Thr
    65 70 70
ctg gtc aac tca gtt aac tct aag att ccc aag gca tgc tgt gtc cca
Leu Val Asn Ser Val Asn Ser Lys Ile Pro Lys Ala Cys Cys Val Pro
                85
                                    90
                                    95
aca gag ctc agc gcc atc tcc atg ctg tac ctt gat gag aat gag aag
Thr Glu Leu Ser Ala Ile Ser Met Leu Tyr Leu Asp Glu Asn Glu Lys
    100 105 110
gtg gta tta aag aac tat cag gac atg ggt gtc gag ggt tgt ggg tgt
Val Val Leu Lys Asn Tyr Gln Asp Met Gly Val Glu Gly Cys Gly Cys
    115
                        120
                        125
cgt tagcacagca aaataaaata taaatatata tatatatata ttagaaaaac
Arg
agcaaaaaa tcaagttgac actttaatat ttcccaatga agactttatt tatggaatgg 497
aatggagaaa aagaaaaca cagctatttt gaaaactata tetatatcta cogaaaagaa 557
gttgggaaaa caaatatttt aatcagagaa ttatt
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<213> Bos taurus
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Ala Lys His Lys Gln Arg Lys Arg Leu Lys Ser Ser Cys Lys Arg His
Pro Leu Tyr Val Asp Phe Ser Asp Val Gly Trp Asn Asp Trp Ile Val
    35 40 45
```




```
cat cct ctc cac aaa aga gaa aaa cgt caa gcc aaa cac aaa cag cgg 1222
His Pro Leu His Lys Arg Glu Lys Arg Gln Ala Lys His Lys Gln Arg
    275 280 285
aaa cgc ctt aag tcc agc tgt aag aga cac cct ttg tac gtg gac ttc
Lys Arg Leu Lys Ser Ser Cys Lys Arg His Pro Leu Tyr Val Asp Phe
290 295 300 305
agt gac gtg ggg tgg aat gac tgg att gtg gct ccc ccg ggg tat cac 1318
Ser Asp Val Gly Trp Asn Asp Trp Ile Val Ala Pro Pro Gly Tyr His
    310
                                    315
gcc ttt tac tgc cac gga gaa tgc cot ttt cot ctg gct gat cat ctg
Ala Phe Tyr Cys His Gly Glu Cys Pro Phe Pro Leu Ala Asp His Leu
    325 330 335
aac tcc act aat cat gcc att gtt cag acg ttg gtc aac tct gtt aac 1414
Asn Ser Thr Asn His Ala Ile Val Gln Thr Leu Val Asn Ser Val Asn
        340
        345
tct aag att cct aag gca tgc tgt gtc ccg aca gaa ctc agt gct atc
Ser Lys Ile Pro Lys Ala Cys Cys Val Pro Thr Glu Leu Ser Ala Ile
    355 360 365
tcg atg ctg tac ctt gac gag aat gaa aag gtt gta tta aag aac tat
Ser Met Leu Tyr Leu Asp Glu Asn Glu Lys Val Val Leu Lys Asn Tyr
370 375 380 385
cag gac atg gtt gtg gag ggt tgt ggg tgt cgc tagtacagca aaattaaata 1563
Gln Asp Met Val Val Glu Gly Cys Gly Cys Arg
    390 395
cataaatata tatatatata tatattttag aaaaaagaaa aaaa
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                    20 25 30
Phe Ala Ala Ala Ser Ser Gly Arg Pro Ser Ser Gln Pro Ser Asp Glu
            35 40 45
Val Leu Ser Glu Phe Glu Leu Arg Leu Leu Ser Met Phe Gly Leu Lys
            50 55 60
Gln Arg Pro Thr Pro Ser Arg Asp Ala Val Val Pro Pro Tyr Met Leu
    65 70 70
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| Asp | Leu | Tyr | Arg | $\begin{array}{r} \text { Arg } \\ 85 \end{array}$ | His S | Ser | Gly | Gln | Pro 90 | Gly | Ser | Pro | Ala | $\begin{array}{r} \text { Pro } \\ 95 \end{array}$ | Asp |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| His | Arg | Leu | $\begin{aligned} & \text { Glu } \\ & 100 \end{aligned}$ | Arg | Ala | Ala | Ser | $\begin{aligned} & \text { Arg } \\ & 105 \end{aligned}$ | Ala | Asn | Thr | Val | $\begin{aligned} & \text { Arg } \\ & 110 \end{aligned}$ | Ser | Phe |
| His | His | $\begin{gathered} \text { Glu } \\ 115 \end{gathered}$ | Glu | Ser | Leu G | Glu | $\begin{aligned} & \text { Glu } \\ & 120 \end{aligned}$ | Leu P | Pro | Glu | Thr | $\begin{aligned} & \text { Ser } \\ & 125 \end{aligned}$ | Gly | Lys | Thr |
| Thr | $\begin{aligned} & \text { Arg } \\ & 130 \end{aligned}$ | Arg | Phe | Phe | Phe A | $\begin{aligned} & \text { Asn } \\ & 135 \end{aligned}$ | Leu | Ser S | Ser I | Ile | $\begin{aligned} & \text { Pro } \\ & 140 \end{aligned}$ | Thr | Glu | Glu | Phe |
| $\begin{aligned} & \text { Ile } \\ & 145 \end{aligned}$ | Thr | Ser | Ala | Glu | $\begin{aligned} & \text { Leu } \\ & 150 \end{aligned}$ | Gln | Val | Phe A | Arg | $\begin{aligned} & \text { Glu } \\ & 155 \end{aligned}$ | Gln | Met | Gln | Asp | $\begin{aligned} & \text { Ala } \\ & 160 \end{aligned}$ |
| Leu | Gly | Asn | Asn | $\begin{aligned} & \text { Ser } \\ & 165 \end{aligned}$ | Ser P | Phe | His | $\begin{array}{r} \text { His } \\ \\ 1 \end{array}$ | $\begin{aligned} & \text { Arg } \\ & 170 \end{aligned}$ | Ile | Asn | Ile | Tyr | $\begin{aligned} & \text { Glu } \\ & 175 \end{aligned}$ | Ile |
| Ile | Lys | Pro | $\begin{aligned} & \text { Ala } \\ & 180 \end{aligned}$ | Thr | Ala A | Asn | er | $\begin{aligned} & \text { Lys } \\ & 185 \end{aligned}$ | Phe | Pro | Val | Thr | $\begin{aligned} & \text { Arg } \\ & 190 \end{aligned}$ | Leu | Leu |
| Asp | Thr | $\begin{aligned} & \text { Arg } \\ & 195 \end{aligned}$ | Leu | Val | Asn G | Gln | $\begin{aligned} & \text { Asn } \\ & 200 \end{aligned}$ | Ala | Ser A | Arg | $\operatorname{Trp}$ | $\begin{aligned} & \text { Glu } \\ & 205 \end{aligned}$ | Ser | Phe | Asp |
| Val | $\begin{aligned} & \text { Thr } \\ & 210 \end{aligned}$ | Pro | Ala | Val | Met A | $\begin{aligned} & \text { Arg } \\ & 215 \end{aligned}$ | Trp | Thr A | Ala | Gln | $\begin{aligned} & \text { Gly } \\ & 220 \end{aligned}$ | His | Ala | Asn | His |
| $\begin{aligned} & \text { Gly } \\ & 225 \end{aligned}$ | Phe | Val | V | Glu | $\begin{aligned} & \text { Val A } \\ & 230 \end{aligned}$ | Ala | His | Leu | Glu | $\begin{aligned} & \text { Glu } \\ & 235 \end{aligned}$ | Lys | Gln | Gly | Val | $\begin{aligned} & \text { Ser } \\ & 240 \end{aligned}$ |
| Lys | Arg | His | Val | $\begin{aligned} & \text { Arg } \\ & 245 \end{aligned}$ | Ile S | Ser | Arg | Ser | $\begin{aligned} & \text { Leu F } \\ & 250 \end{aligned}$ | His | Gln | Asp | Glu | $\begin{aligned} & \text { His } \\ & 255 \end{aligned}$ | Ser |
| Trp | Ser | Gln | $\begin{aligned} & \text { Ile } \\ & 260 \end{aligned}$ | Arg | Pro L | Leu L | Leu | $\begin{aligned} & \text { Val } \\ & 265 \end{aligned}$ | Thr | Phe | Gly | His | $\begin{aligned} & \text { Asp } \\ & 270 \end{aligned}$ | Gly | Lys |
| Gly | His | $\begin{aligned} & \text { Pro } \\ & 275 \end{aligned}$ | Leu | His L | Lys A | Arg | $\begin{aligned} & \text { Glu I } \\ & 280 \end{aligned}$ | Lys A | Arg | Gln | Ala | $\begin{aligned} & \text { Lys } \\ & 285 \end{aligned}$ | His | Lys | Gln |
| Arg | $\begin{aligned} & \text { Lys } \\ & 290 \end{aligned}$ | Arg | Leu | Lys |  | $\begin{aligned} & \text { Ser } \\ & 295 \end{aligned}$ | Cys | Lys A | Arg | His | $\begin{aligned} & \text { Pro } \\ & 300 \end{aligned}$ | Leu | Tyr | Val | Asp |
| Phe 305 | Ser | Asp | Val | Gly | $\begin{aligned} & \text { Trp A } \\ & 310 \end{aligned}$ | Asn | Asp | Trp |  | $\begin{aligned} & \mathrm{Val} \\ & 315 \end{aligned}$ | Ala | Pro | Pro | Gly | $\begin{aligned} & \text { Tyr } \\ & 320 \end{aligned}$ |
| His | Ala | Phe | Tyr | $\begin{aligned} & \text { Cys } \\ & 325 \end{aligned}$ | His | Gly | Glu | Cys | $\begin{aligned} & \text { Pro } \\ & 330 \end{aligned}$ | Phe | Pro I | Leu | Ala | $\begin{aligned} & \text { Asp } \\ & 335 \end{aligned}$ | His |
| Leu | Asn | Ser | $\begin{aligned} & \text { Thr } \\ & 340 \end{aligned}$ | Asn | His A | Ala | Ile | $\begin{aligned} & \text { Val } \\ & 345 \end{aligned}$ | Gln | Thr | Leu | Val | $\begin{aligned} & \text { Asn } \\ & 350 \end{aligned}$ | Ser | Val |
| Asn | Ser | $\begin{aligned} & \text { Lys } \\ & 355 \end{aligned}$ | Ile | Pro L | Lys A | Ala | $\begin{aligned} & \text { Cys } \\ & 360 \end{aligned}$ | Cys V | Val P | Pro | Thr | $\begin{aligned} & \text { Glu } \\ & 365 \end{aligned}$ | Leu | Ser | Ala |
| Ile | $\begin{aligned} & \text { Ser } \\ & 370 \end{aligned}$ | Met | Leu | Tyr | Leu $\begin{array}{r}\text { A }\end{array}$ | $\begin{aligned} & \text { Asp } \\ & 375 \end{aligned}$ | Glu | Asn G | Glu L | Lys | $\begin{aligned} & \mathrm{Val} \\ & 380 \end{aligned}$ | Val | Leu | Lys | Asn |

Tyr Gln Asp Met Val Val Glu Gly Cys Gly Cys Arg 385390395

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agtatctagc ttgtctcccc gatgggattc ccgtccaagc tatctcgagc etgcagcgcc 180
acagtccccg gccctcgccc aggttcactg caaccgttca gaggtcccca ggagctgctg 240
ctggcgagcc cgctactgca gggacctatg gagccattcc gtagtgccat cccgagcaac 300
gcactgctgc agcttccctg agcctttcca gcaagtttgt tcaagattgg ctgtcaagaa 360
tcatggactg ttattatatg ccttgttttc tgtcaagaca cc atg att cct ggt 4 4 
    Met Ile Pro Gly
                    1
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aac cga atg ctg atg gtc gtt tta tta tgc caa gtc ctg cta gga ggc
Asn Arg Met Leu Met Val Val Leu Leu Cys Gln Val Leu Leu Gly Gly
$510 \quad 15 \quad 20$
gcg agc cat gct agt ttg ata cct gag acg ggg aag aaa aaa gtc gcc
Ala Ser His Ala Ser Leu Ile Pro Glu Thr Gly Lys Lys Lys Val Ala
253035
gag att cag ggc cac gcg gga gga cgc cgc tca ggg cag agc cat gag
558
Glu Ile Gln Gly His Ala Gly Gly Arg Arg Ser Gly Gln Ser His Glu
404540
ctc ctg cgg gac ttc gag gcg aca ctt ctg cag atg ttt ggg ctg cgc
606
Leu Leu Arg Asp Phe Glu Ala Thr Leu Leu Gln Met Phe Gly Leu Arg
556065
cgc cgc ccg cag cct agc aag agt gcc gtc att cog gac tac atg cgg
654
Arg Arg Pro Gln Pro Ser Lys Ser Ala Val Ile Pro Asp Tyr Met Arg
$70 \quad 7580$
gat ctt tac cgg ctt cag tct ggg gag gag gag gaa gag cag atc cac
Asp Leu Tyr Arg Leu Gln Ser Gly Glu Glu Glu Glu Glu Gln Ile His
$85 \quad 90 \quad 95100$



| Asp | Tyr | Met | Arg | $\begin{array}{r} \text { Asp } \\ 85 \end{array}$ | Leu | Tyr | Arg | Leu | $\begin{array}{r} \text { Gln } \\ 90 \end{array}$ | Ser | Gly | Glu | Glu | $\begin{array}{r} \text { Glu } \\ 95 \end{array}$ | Glu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Glu | Gln | Ile | $\begin{aligned} & \mathrm{His} \\ & 100 \end{aligned}$ | Ser | Thr | Gly | Leu | $\begin{aligned} & \text { Glu } \\ & 105 \end{aligned}$ | Tyr | Pro | Glu | Arg | $\begin{aligned} & \text { Pro } \\ & 110 \end{aligned}$ | Ala | Ser |
| Arg | Ala | $\begin{aligned} & \text { Asn } \\ & 115 \end{aligned}$ | Thr | Val | Arg | Ser | $\begin{aligned} & \text { Phe } \\ & 120 \end{aligned}$ | His | His | Glu | Glu | $\begin{aligned} & \text { His } \\ & 125 \end{aligned}$ | Leu | Glu | Asn |
| Ile | $\begin{aligned} & \text { Pro } \\ & 130 \end{aligned}$ | Gly | Thr | Ser | Glu | Asn 135 | Ser | Ala | Phe | Arg | $\begin{aligned} & \text { Phe } \\ & 140 \end{aligned}$ | Leu | Phe | Asn | Leu |
| $\begin{aligned} & \text { Ser } \\ & 145 \end{aligned}$ | Ser | Ile | Pro | Glu | $\begin{aligned} & \text { Asn } \\ & 150 \end{aligned}$ | Glu | Val | Ile | Ser | $\begin{aligned} & \text { Ser } \\ & 155 \end{aligned}$ | Ala | Glu | Leu | Arg | $\begin{aligned} & \text { Leu } \\ & 160 \end{aligned}$ |
| Phe | Arg | Glu | Gln | $\begin{aligned} & \text { Val } \\ & 165 \end{aligned}$ | Asp | Gln | Gly | Pro | $\begin{aligned} & \text { Asp } \\ & 170 \end{aligned}$ | Trp | Glu | Arg | Gly | $\begin{aligned} & \text { Phe } \\ & 175 \end{aligned}$ | His |
| Arg | Ile | Asn | $\begin{aligned} & \text { Ile } \\ & 180 \end{aligned}$ | Tyr | Glu | Val | Met | $\begin{aligned} & \text { Lys } \\ & 185 \end{aligned}$ | Pro | Pro | Ala | Glu | Val <br> 190 | Val | Pro |
| Gly | His | $\begin{aligned} & \text { Leu } \\ & 195 \end{aligned}$ | Ile | Thr | Arg | Leu | $\begin{aligned} & \text { Leu } \\ & 200 \end{aligned}$ | Asp | Thr | Arg | Leu | $\begin{aligned} & \text { Val } \\ & 205 \end{aligned}$ | His | His | Asn |
| Val | $\begin{aligned} & \text { Thr } \\ & 210 \end{aligned}$ | Arg | Trp | Glu | Thr | $\begin{aligned} & \text { Phe } \\ & 215 \end{aligned}$ | Asp | Val | Ser | Pro | $\begin{aligned} & \text { Ala } \\ & 220 \end{aligned}$ | Val | Leu | Arg | Trp |
| $\begin{aligned} & \text { Thr } \\ & 225 \end{aligned}$ | Arg | Glu | Lys | Gln | $\begin{aligned} & \text { Pro } \\ & 230 \end{aligned}$ | Asn | Tyr | Gly | Leu | $\begin{aligned} & \text { Ala } \\ & 235 \end{aligned}$ | Ile | Glu | Val | Thr | $\begin{aligned} & \mathrm{His} \\ & 240 \end{aligned}$ |
| Leu | His | Gln | Thr | $\begin{aligned} & \text { Arg } \\ & 245 \end{aligned}$ | Thr | His | Gln | Gly | $\begin{aligned} & \text { Gln } \\ & 250 \end{aligned}$ | His | Val | Arg | Ile | $\begin{aligned} & \text { Ser } \\ & 255 \end{aligned}$ | Arg |
| Ser | Leu | Pro | $\begin{aligned} & \text { Gln } \\ & 260 \end{aligned}$ | Gly | Ser | Gly | Asn | $\begin{aligned} & \operatorname{Trp} \\ & 265 \end{aligned}$ | Ala | Gln | Leu | Arg | $\begin{aligned} & \text { Pro } \\ & 270 \end{aligned}$ | Leu | Leu |
| Val | Thr | $\begin{aligned} & \text { Phe } \\ & 275 \end{aligned}$ | Gly | His | Asp | Gly | $\begin{aligned} & \text { Arg } \\ & 280 \end{aligned}$ | Gly | His | Ala | Leu | $\begin{aligned} & \text { Thr } \\ & 285 \end{aligned}$ | Arg | Arg | Arg |
| Arg | $\begin{aligned} & \text { Ala } \\ & 290 \end{aligned}$ | Lys | Arg | Ser | Pro | $\begin{aligned} & \text { Lys } \\ & 295 \end{aligned}$ | His | His | Ser | Gln | $\begin{aligned} & \text { Arg } \\ & 300 \end{aligned}$ | Ala | Arg | Lys | Lys |
| $\begin{aligned} & \text { Asn } \\ & 305 \end{aligned}$ | Lys | Asn | Cys | Arg | $\begin{aligned} & \text { Arg } \\ & 310 \end{aligned}$ | His | Ser | Leu | Tyr | $\begin{aligned} & \text { Val } \\ & 315 \end{aligned}$ | Asp | Phe | Ser | Asp | $\begin{aligned} & \text { Val } \\ & 320 \end{aligned}$ |
| Gly | Trp | Asn | Asp | $\begin{aligned} & \text { Trp } \\ & 325 \end{aligned}$ | Ile | Val | Ala | ro | $\begin{aligned} & \text { Pro } \\ & 330 \end{aligned}$ | Gly | Tyr | Gln | Ala | $\begin{aligned} & \text { Phe } \\ & 335 \end{aligned}$ | TYr |
| Cys | His | Gly | $\begin{aligned} & \text { Asp } \\ & 340 \end{aligned}$ | Cys | Pro | Phe | Pro | $\begin{aligned} & \text { Leu } \\ & 345 \end{aligned}$ | Ala | Asp | His | Leu | $\begin{aligned} & \text { Asn } \\ & 350 \end{aligned}$ | Ser | Thr |
| Asn | His | $\begin{aligned} & \text { Ala } \\ & 355 \end{aligned}$ | Ile | Val | Gln | Thr | $\begin{aligned} & \text { Leu } \\ & 360 \end{aligned}$ | Val | Asn | Ser | Val | $\begin{aligned} & \text { Asn } \\ & 365 \end{aligned}$ | Ser | Ser | Ile |
| Pro | $\begin{aligned} & \text { Lys } \\ & 370 \end{aligned}$ | Ala | Cys | Cys | Val | $\begin{aligned} & \text { Pro } \\ & 375 \end{aligned}$ | Thr | Glu | Leu | Ser | $\begin{aligned} & \text { Ala } \\ & 380 \end{aligned}$ | Ile | Ser | Met | Leu |

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Tyr Leu Asp Glu Tyr Asp Lys Val Val Leu Lys Asn Tyr Gln Glu Met
385 390 405 400
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Val Val Glu Gly Cys Gly Cys Arg
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15

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    1 5 10
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Asn Gln Glu Ala Leu Arg
1
5

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Leu Ser Glu Pro Asp Pro Ser His Thr Leu Glu Glu
    1 5 10
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Phe Asp Ala Tyr Tyr
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<210> 16
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    polynucleotide sequence
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<212> DNA
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acgattgc
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<223> Description of Artificial Sequence: Synthetic
    polynucleotide sequence
<400> 22
ggatgtgggt gccgctgact ctagagtcga cggaattc
<210> 23
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    polynucleotide sequence
<400> 23
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